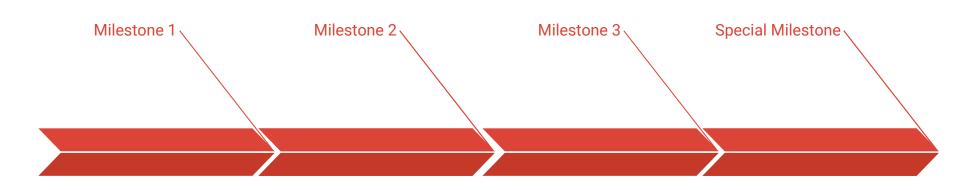
## **DevOps Pipeline**

#### Presented By:

- Abhishek Bandarpule
- Calvin Fernando
- Davis Pynadath
- Revanth Pathuri

## Goal



**Configuration Management and Build** 

**Test & Analysis** 

Deployment & Infrastructure Upgrade

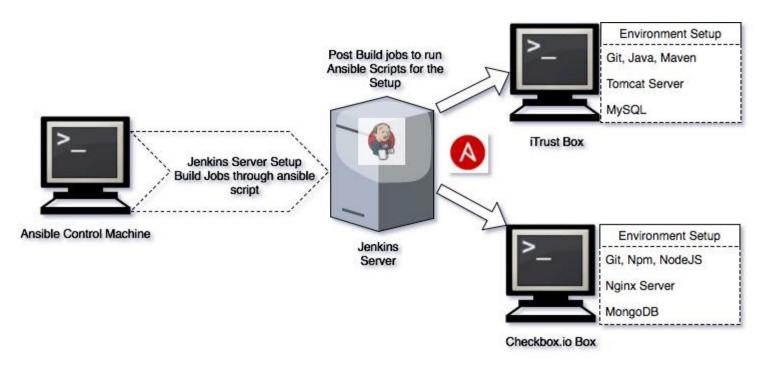
**Feasibility of App-Migration** 

## Milestone 1 - Build Stage

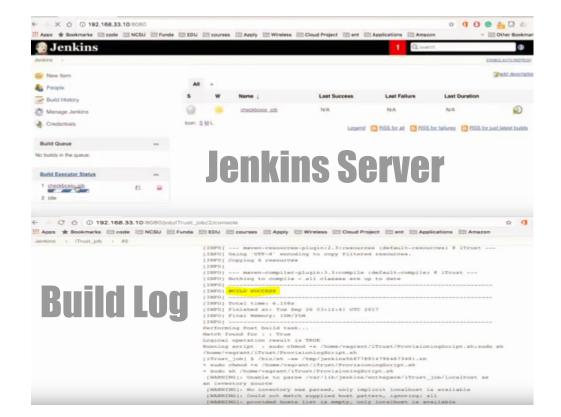
#### Configuration Management & Build

- 1. Jenkins Server Setup
- 2. Build Jobs
  - a. iTrust (Java Application)
  - b. Checkbox.io (Node Application)
- 3. Local Deploy

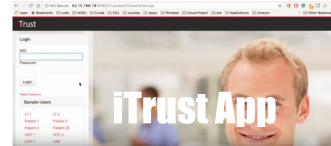
### Milestone 1



### Milestone 1



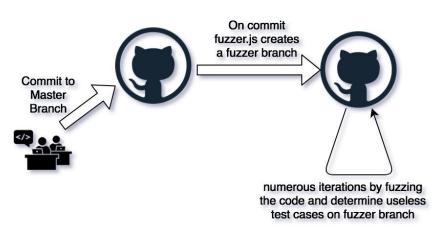




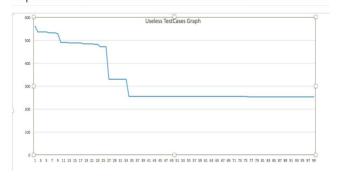
## Milestone 2 - Test and Analysis

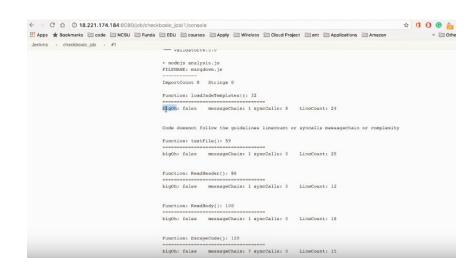
- 1. Fuzzing and Useless Test Case detector
- 2. Code Coverage Report
- 3. Code Analysis

# Milestone 2 (Testing & Analysis)



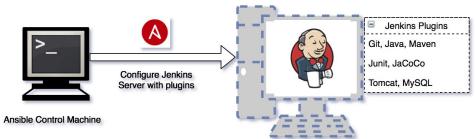
#### Graph of Number of Useless TestCases vs Number of Builds





Build Log for Code analysis on checkbox.io application

## Milestone 2 (Code Coverage Report)





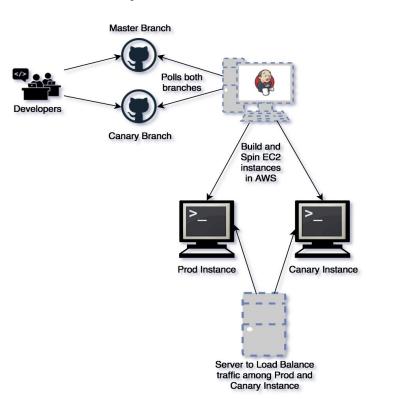
# Milestone 3 - Deploy Stage

#### Deployment

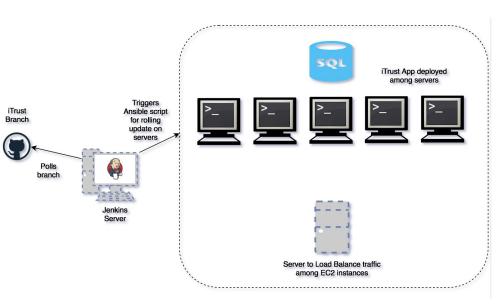
- 1. Remote deployment to EC2
- 2. Infrastructure Upgrades
  - a. Nomad Cluster
  - b. Feature Flag
- 3. Canary Release
- 4. Rolling Update

### Milestone 3

#### **Canary Release**



#### **Rolling Update**



## **Special Milestone**

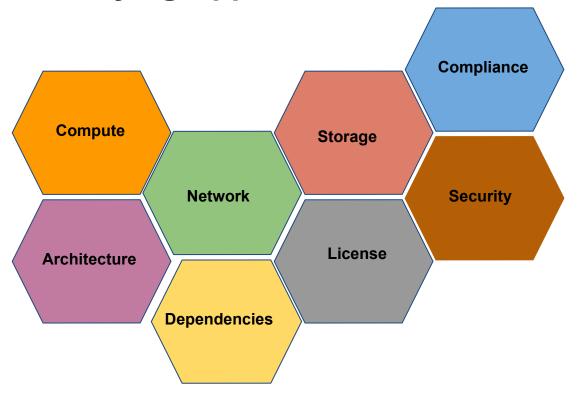
#### Feasibility of App-Migration to Cloud

### Why?

- 1. Aid customers in tackling the factors that inhibit the migration to cloud.
- Effective utilisation of cloud resources and services
- 3. Bang for the buck
- 4. Choosing the right provider

#### **Analysis on Cloudifying Application**

How?



# Thank You!!:)